State of Wisconsin/Department of Transportation

RESEARCH PROGRESS REPORT FOR THE QUARTER ENDING: Jun 30, 2003

Program: SPR-0010(36) FFY99	**Part: II Research and Development**
Project Title: Determination of Typical Resilient Modulus Values for Selected Soils Representative of the Soils Distributions of Wisconsin	**Project ID:** 0092-03-11
Administrative Contact: Nina McLawhorn	**Sponsor:**
WisDOT Technical Contact: Bob Arndorfer	**Approved Starting Date:** Jan 31, 2003
Approved by COR/Steering Committee: $103,049.00	**Approved Ending Date:** Jan 31, 2005
Project Investigator (agency & contact): Hani Titi: UW-Milwaukee	

Description: The study will be conducted over 24 months, and be completed in 5 phases:
Task 1: Literature Review on Resilient Modulus of Subgrade Soils
Task 2: Selection of a Wide Spectrum of Subgrade Soils that Comprise Core Soil Types in Wisconsin
Task 3: Evaluate the Effects of Soil Properties and Stress Levels on the Resilient Modulus of Wisconsin Sugrade Soils
Task 4: Analyses of Test Results and Development of Models to Predict Resilient Modulus
Task 5: Final Report

Total Study Budget	Current FFY Budget	Expenditures for Current Quarter	Total Expenditures to Date	Percent Complete
$103,049.00	**$34,349.66**	$14,000.00	**$0.00**	**20 (%)**

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Progress This Quarter:
(Includes project committee mtgs, work plan status, contract status, significant progress, etc.)

1. Project kickoff meeting in Truax Center in May 21, 2003
2. Conducted comprehensive literature search and collected papers and reports pertaining to resilient modulus testing
3. Prepared a preliminary draft on the literature material compiled
4. Identified soil types for the laboratory testing program
5. Manufactured special soil preparation setup for resilient modulus testing as required by AASHTO T 307. This consists of 2.8 and 4 inches in diameter molds, pistons, rings, and hydraulic pressure jack.
6. Obtained one soil type and conducted all required tests and established laboratory work plan
7. Obtained three soil types for the laboratory testing program
8. Conducted laboratory tests to characterize all soils collected. Tests include grain size analysis (sieve analysis and hydrometer analysis), specific gravity, density-water content relationship, etc.
9. Conducted resilient modulus tests on soil samples at the specified moisture content and density.

Work Next Quarter:

1. Obtain more soil samples
2. Continue laboratory testing program
3. Conduct preliminary analysis
4. Finalize literature review
5. Meet with the Project Oversight Team (POT) and make a presntation on the work progress

Circumstances affecting progress/budget:

Gantt Chart:

Note: Gantt chart shown in State Fiscal Year Quarters